THE ASTROPHYSICAL JOURNAL LETTERS

CONTENTS OF VOLUME 407, PART 2

1993 APRIL 10, Number 1

	Page	Fiche
OPTICAL PHOTOMETRY AND POLARIMETRY AND INFRARED PHOTOMETRY OF 3C 345 IN OUTBURST Mark R. Kidger, José Antonio de Diego, Leo O. Takalo, Aimo Sillanpää, & Masami Okyudo	L1	75-A7
KINEMATICS OF AN "E+A" GALAXY IN ABELL 665 AT $z=0.18$ Marijn Franx	L5	75-B1
BINARY MERGING: THE OTHER MODE OF GALAXY EVOLUTION A. Cavaliere & N. Menci	L9	75-B6
COOLING FLOWS AND CLUSTER EVOLUTION Mark J. Henriksen	L13	75-B11
AN H α Survey of cluster spirals: comparison of star formation in clusters and the field C. Moss & M. Whittle	L17	75-C1
AFTERGLOWS FROM GAMMA-RAY BURSTERS: A WAY TO ESTIMATE THE BURSTER DISTANCE SCALE? H. S. Fencl, R. N. Boyd, & Dieter H. Hartmann	L21	75-C6
CO EMISSION FROM MOLECULAR GAS AT -190 KILOMETERS PER SECOND NEAR SAGITTARIUS A H. S. Liszi & W. B. Burton	L25	75-C11
NEAR-INFRARED OBSERVATIONS OF THE HH 111 REGION Roland Gredel & Bo Reipurth	L29	75-D1
HIGH-EXCITATION SIO MASER EMISSION IN VY CANIS MAJORIS: DETECTION OF THE $\nu=4$ $J=5$ –4 TRANSITION J . Cernicharo, V . Bujarrabal, & J . L . Santarén	L33	75-D6
THE ABUNDANCE DISTRIBUTION OF C ₄ H IN IRC + 10216 Aditya Dayal & John H. Bieging	L37	75-E1
INSTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS, AUTHOR AND SUBJECT INDEXES	Inside Back Cover	

1993 APRIL 20, Number 2

	Page	Fiche
EGRET DETECTION OF HIGH-ENERGY GAMMA RADIATION FROM THE OVV QUASAR 3C 454.3 R. C. Hartman, D. L. Bertsch, B. L. Dingus, C. E. Fichtel, S. D. Hunter, G. Kanbach, D. A. Kniffen, Y. C. Lin, J. R. Mattox, H. A. Mayer-Hasselwander, P. F. Michelson, C. von Montigny, P. L. Nolan, B. G. Piner, E. Schneid, P. Sreekumar, & D. J. Thompson	L41	82-B1
GALAXY CLUSTERS AND THE COBE RESULT James G. Bartlett & Joseph Silk	L45	82-B6
THE MASS FUNCTION OF CLUSTERS OF GALAXIES Neta A. Bahcall & Renyue Cen	L49	82-B10
WHEN CLUSTERS COLLIDE: A NUMERICAL HYDRO/N-BODY SIMULATION OF MERGING GALAXY CLUSTERS Kurt Roettinger, Jack Burns, & Chris Loken	L53	82-C1
THE STELLAR VELOCITY DISPERSION IN THE NUCLEUS OF M82 Niall I. Gaffney, Dan F. Lester, & C. M. Telesco	L57	82-C6

CONTENTS

	Page	Fiche
OSSE OBSERVATIONS OF NGC 4151 M. Maisack, W. N. Johnson, R. L. Kinzer, M. S. Strickman, J. D. Kurfess, R. A. Cameron, G. V. Jung, D. A. Grabelsky, W. R. Purcell, & M. P. Ulmer	L61	82-C10
THE 8-13 MICRON SPECTRUM OF ARP 299C C. C. Dudley & C. G. Wynn-Williams	L65	82-D1
INFRARED IMAGING OF MG 0414+0534: THE RED GRAVITATIONAL LENS SYSTEMS AS LENSED RADIO GALAXIES James Annis & Gerard A. Luppino	L69	82-D6
EVOLUTION OF COSMIC RAYS IN THE EARLY GALAXY R. A. Malaney & M. N. Butler	L73	82-D1
NEAR-INFRARED 0".15 RESOLUTION IMAGING OF THE GALACTIC CENTER A. Eckart, R. Genzel, R. Hofmann, B. J. Sams, & L. E. Tacconi-Garman	L77	82-E1
ON SYMBIOTIC STARS AND TYPE Ia SUPERNOVAE Scott J. Kenyon, Mario Livio, Joanna Mikołajewska, & Christopher A. Tout	L81	82-E9
METAL-LINE BLANKETING AND THE PECULIAR H β LINE PROFILE IN THE DAO STAR FEIGE 55 P. Bergeron, F. Wesemael, R. Lamontagne, & P. Chayer	L85	82-F1
FLUX EMERGENCE AND UMBRA FORMATION AFTER THE X-9 FLARE OF 1991 MARCH 22 Haimin Wang & Frances Tang	L89	82-F6
ELECTRIC FIELD EFFECTS ON DIELECTRONIC RECOMBINATION IN A COLLISIONAL-RADIATIVE MODEL N. R. Badnell, M. S. Pindzola, W. J. Dickson, H. P. Summers, D. C. Griffin, & J. Lang	L91	82-F11
QUASI-LINEAR THEORY AND THE PHENOMENOLOGY OF INTERPLANETARY SOLAR PARTICLE TRANSPORT Wolfgang Dröge, Ulrich Achatz, Wolfgang Wanner, Reinhard Schlickeiser, & Gerd Wibberenz	L95	82-G1
INTRUCTIONS TO AUTHORS OF LETTERS, RECENT LETTERS ABSTRACTS, AUTHOR AND SUBJECT INDEXES	Inside Back Cover	

